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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/808,001	03/24/2004	Jochem Van De Weerd	TS0633 (US)	4655	
	23632 7590 03/27/2007 SHELL OIL COMPANY			EXAMINER	
P O BOX 2463			MCAVOY, ELLEN M		
HOUSTON, TX 772522463			ART UNIT	PAPER NUMBER	
			1764		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS		03/27/2007	PAPER		

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office Action Summer	10/808,001	DE WEERD, JOCH	HEM VAN			
Office Action Summary	Examiner	Art Unit				
	Ellen M. McAvoy	1764				
The MAILING DATE of this communication app Period for Reply	pears on the cover she	et with the correspondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMI 36(a). In no event, however, m will apply and will expire SIX (6) a, cause the application to become	UNICATION.  lay a reply be timely filed  MONTHS from the mailing date of this come and the mailing date of this come and the me ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.				
Disposition of Claims						
4)  Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-11 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or	wn from consideration					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected drawing(s) be held in ab tion is required if the draw	neyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 CF				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received ts have been received rity documents have b u (PCT Rule 17.2(a)).	in Application No been received in this National	Stage			
•						
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/28/05; 5/11/2006.	Pape 5) 🔲 Notic	riew Summary (PTO-413) r No(s)/Mail Date e of Informal Patent Application .:				

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## Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 102(a) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over De Bruyn et al (WO 03/024910 A1)

DeBruyn et al ["DeBruyn"] disclose a process for increasing the carbon chain length of an olefinic compound comprising the steps of providing a starting olefinic compound and subjecting it to hydroformylation to produce an aldehyde and/or alcohol with an increased carbon chain length compared to the starting olefinic compound. De Bruyn teaches that, optionally, the aldehyde that may form during the hydroformylation reaction is hydrogenated to convert it to an alcohol which has an increased carbon chain length compared to the starting olefinic compound. The alcohol is then subjected to dehydration to produce an olefinic compound with an increased carbon chain length compared to the starting olefinic compound. DeBruyn teaches that the process produces linear unbranched olefins such as 1-hexene and/or 1-octene. See page 2-3. Specifically, DeBruyn teaches that 1-pentene may be converted to

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1-hexene, and that 1-heptene may be converted to 1-octene. See page 4. Fischer-Tropsch derived feed streams containing one or more alpha-olefins are set forth in the prior art on page 4. Removal of unwanted products is taught in the prior art on pages 6-7. The examiner is of the position that the process and products of DeBruyn anticipate the above rejected claims.

## Claim Rejections - 35 USC § 103

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bolinger (6,037,506) in combination with Kaizik et al (6,627,782).

Bolinger discloses a process for producing hydroformylation products by reacting olefinic feed with hydrogen and carbon monoxide in the presence of a catalyst to form aldehydes and alcohols. Applicants invention differs by converting the aldehydes and alcohols into 1-olefins with an increased carbon chain length compared to the starting olefinic compound. However, such a process step is known in the art as evidenced by Kaizik et al ["Kaizik"] which discloses preparing 1-olefins from aldehydes and alcohols by dehydration. Having the prior art references before the inventor at the time the invention was made it would have been obvious to the skilled artisan to have produced 1-olefins from the aldehydes and alcohols produced by the process of Bolinger if so desired by the addition of the known dehydration step taught in Kaizik.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen M. McAvoy whose telephone number is (571) 272-1451. The examiner can normally be reached on M-F (7:30-5:00) with alt. Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ellen M McAvdy Primary Examiner Art Unit 1764

EMcAvoy March 22, 2007